

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P633308

Luminaire Tested: GWS-SA2E-740-U-SL4-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633308
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-35)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2E-740-U-SL4-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14013.1 lumens
Efficiency: N/A
Efficacy: 129.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

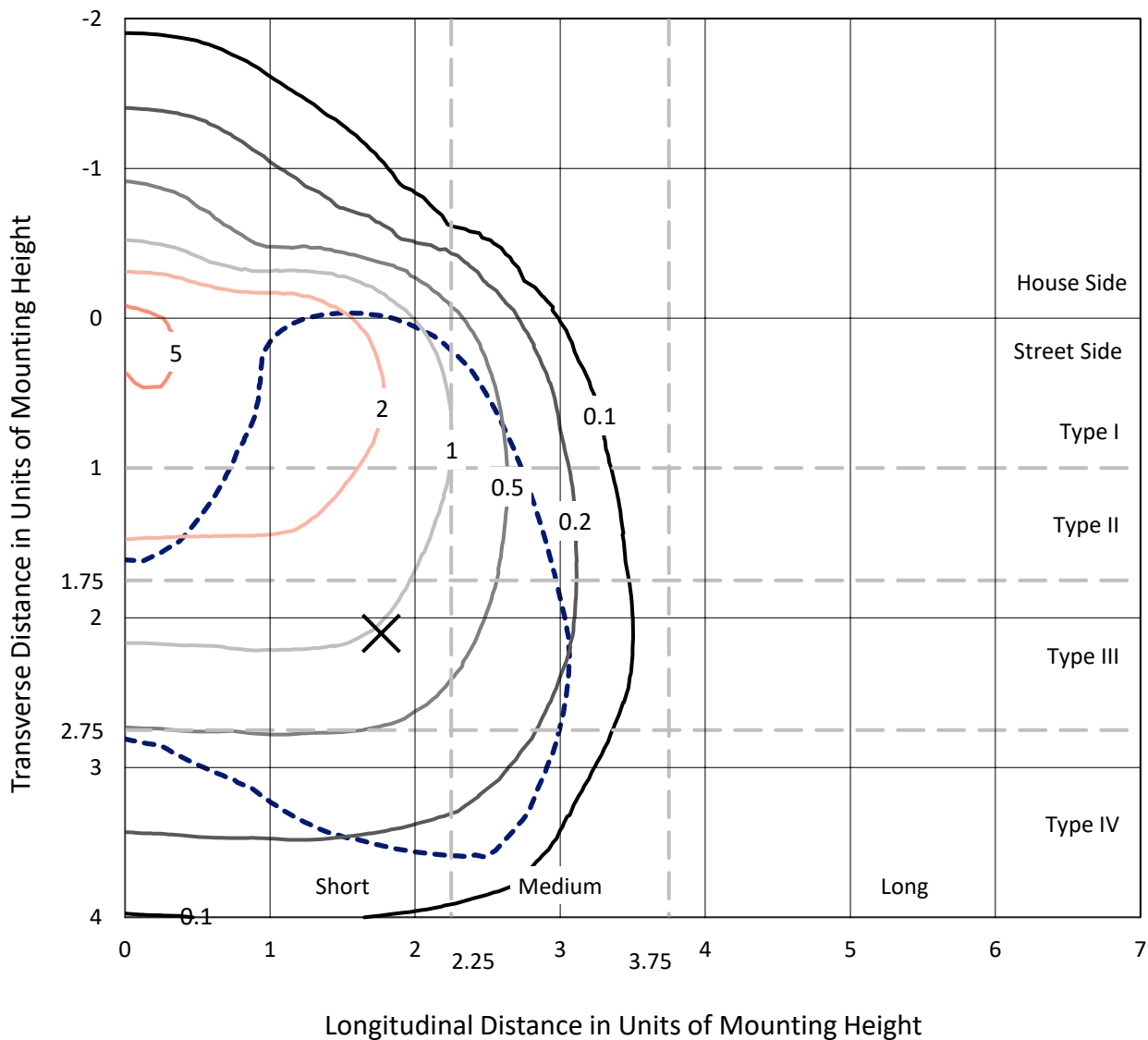
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P633308
 CATALOG NUMBER: GWS-SA2E-740-U-SL4-W

Iso-Footcandle Lines of Horizontal Illumination

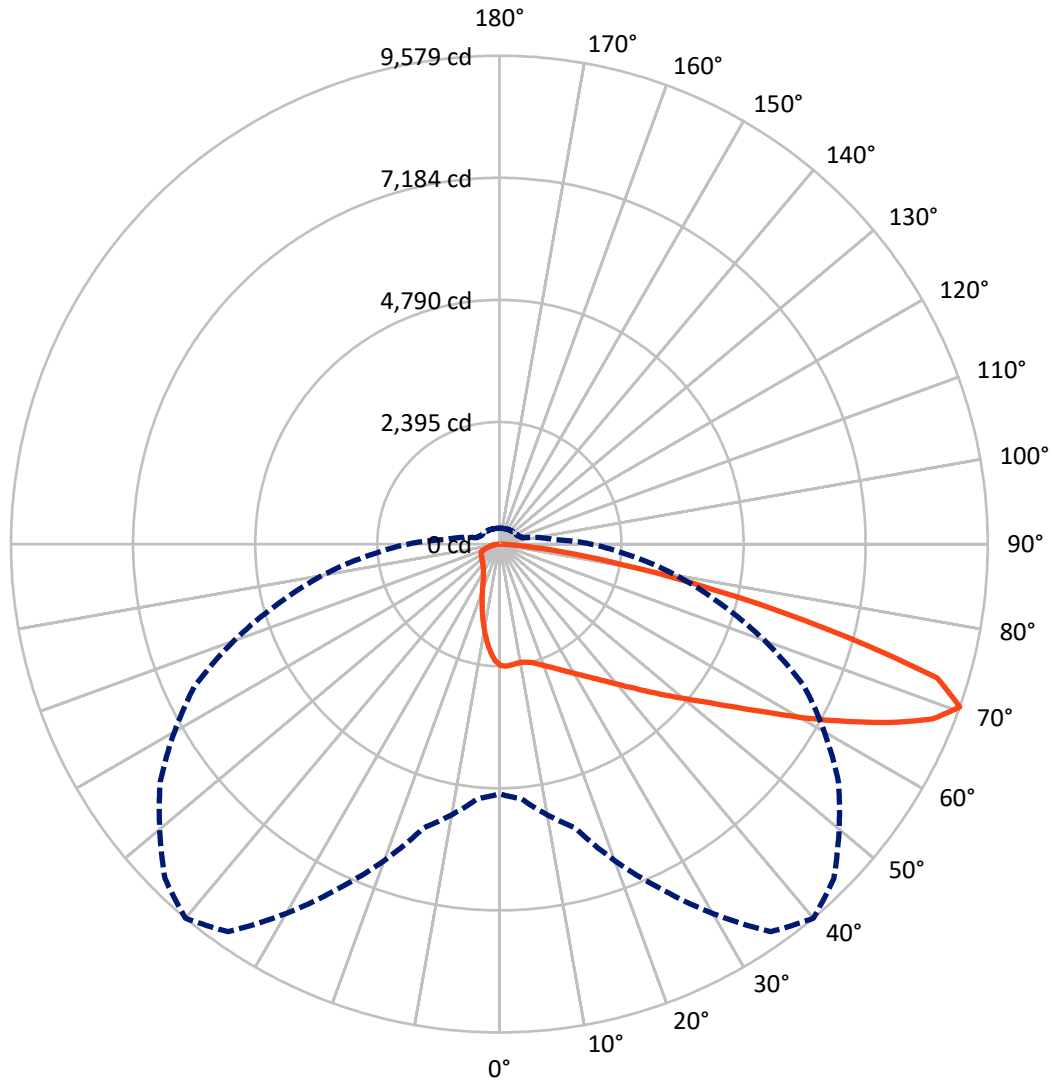
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.9 fc
 Type IV - Short - N/A

REPORT NUMBER: P633308
CATALOG NUMBER: GWS-SA2E-740-U-SL4-W

Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P633308

CATALOG NUMBER: GWS-SA2E-740-U-SL4-W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2158.4	0.0	2158.4
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	11854.7	0.0	11854.7
	% Fixture	84.6	0.0	84.6
Total	Lumens	14013.1	0.0	14013.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.2	1.5
10°-20°	547.9	3.9
20°-30°	860.4	6.1
30°-40°	1293.6	9.2
40°-50°	1996.7	14.2
50°-60°	2965.3	21.2
60°-70°	3737.7	26.7
70°-80°	2161.5	15.4
80°-90°	239.9	1.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	14013.1	100.0
0°-180°	14013.1	100.0

Coefficient of Utilization



REPORT NUMBER: P633308

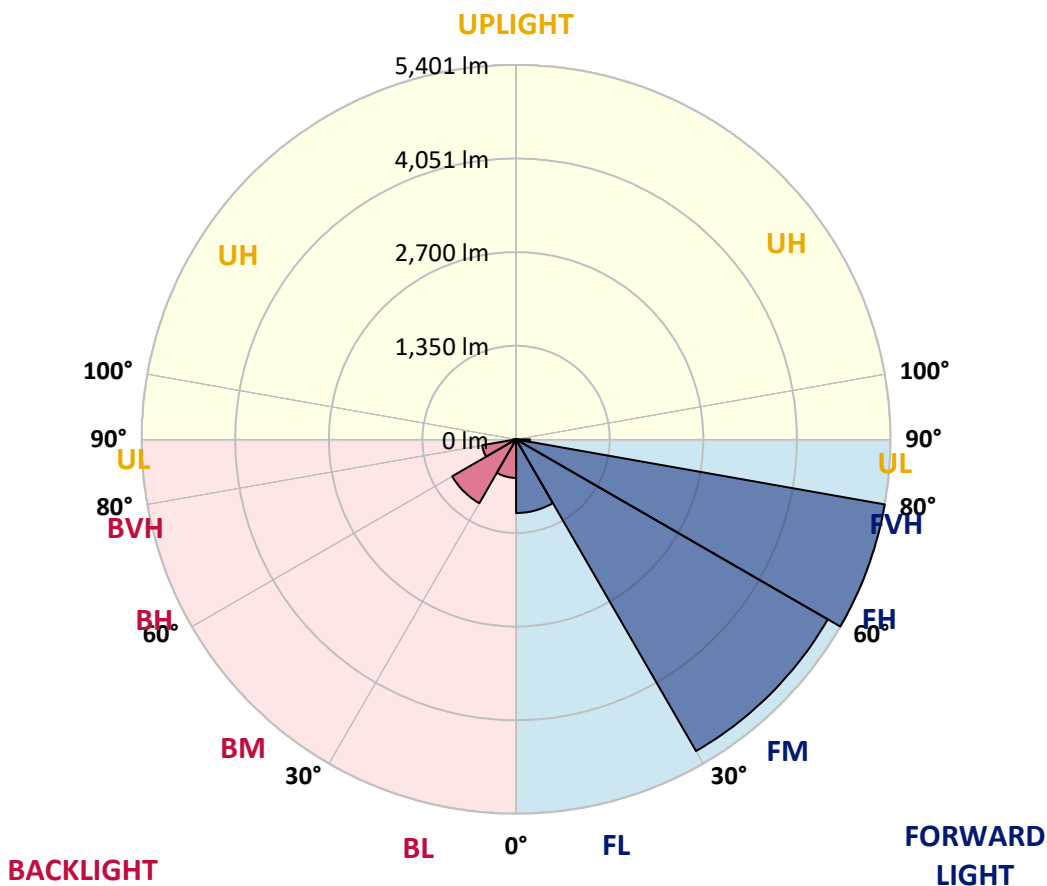
CATALOG NUMBER: GWS-SA2E-740-U-SL4-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1062.3	7.6			
FM (30°-60°)	5191.7	37.0			
FH (60°-80°)	5401.0	38.5			G3/7500
FVH (80°-90°)	199.8	1.4			G2/225
BL (0°-30°)	556.2	4.0	B2/1000		
BM (30°-60°)	1063.9	7.6	B2/2500		
BH (60°-80°)	498.1	3.6	B1/500		G1/500
BVH (80°-90°)	40.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





REPORT NUMBER: P633308
 CATALOG NUMBER: GWS-SA2E-740-U-SL4-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2379.6	2379.6	2379.6	2379.6	2379.6	2379.6	2379.6	2379.6	2379.6	2379.6	2379.6
2.5°	2394.2	2398.4	2401.6	2405.7	2403.6	2397.4	2402.6	2402.6	2391.1	2378.5	2367.0
5°	2397.4	2402.6	2401.6	2400.5	2392.1	2381.7	2381.7	2375.4	2355.5	2335.7	2316.8
7.5°	2391.1	2390.0	2389.0	2385.9	2376.4	2364.9	2362.8	2350.3	2324.1	2297.0	2269.8
10°	2362.8	2361.8	2364.9	2372.3	2370.2	2359.7	2359.7	2348.2	2317.9	2284.4	2248.8
12.5°	2339.8	2339.8	2352.4	2372.3	2379.6	2375.4	2376.4	2368.1	2333.6	2293.8	2252.0
15°	2343.0	2344.0	2371.2	2403.6	2417.2	2414.1	2415.1	2405.7	2367.0	2327.3	2270.8
17.5°	2363.9	2369.1	2416.2	2461.2	2479.0	2474.8	2467.4	2451.8	2407.8	2362.8	2293.8
20°	2407.8	2416.2	2476.9	2533.3	2554.3	2544.8	2532.3	2500.9	2452.8	2403.6	2318.9
22.5°	2494.6	2499.9	2566.8	2622.3	2639.0	2627.5	2602.4	2557.4	2502.0	2450.7	2349.3
25°	2617.0	2623.3	2687.1	2738.4	2734.2	2720.6	2686.1	2630.6	2564.7	2510.3	2393.2
27.5°	2762.4	2772.9	2835.6	2876.4	2849.2	2829.4	2790.7	2723.7	2649.4	2600.3	2460.1
30°	2921.4	2925.6	2978.9	3019.7	2977.9	2950.7	2903.6	2831.4	2764.5	2727.9	2560.5
32.5°	3075.2	3079.3	3125.4	3148.4	3104.4	3084.6	3043.8	2967.4	2920.4	2900.5	2710.1
35°	3237.3	3236.2	3273.9	3293.8	3248.8	3240.4	3198.6	3140.0	3131.6	3157.8	2928.7
37.5°	3399.4	3390.0	3409.9	3436.0	3410.9	3419.3	3392.1	3372.2	3404.6	3472.6	3219.5
40°	3529.1	3529.1	3550.0	3582.5	3590.8	3627.4	3611.7	3637.9	3742.5	3904.6	3579.3
42.5°	3644.2	3645.2	3689.1	3739.3	3800.0	3856.5	3869.0	3937.0	4153.6	4407.7	4031.2
45°	3764.5	3765.5	3825.1	3898.3	4027.0	4134.7	4159.8	4312.5	4622.1	4931.8	4521.7
47.5°	3903.6	3892.1	3974.7	4097.1	4280.1	4434.9	4499.8	4716.3	5107.5	5488.2	4984.1
50°	4060.5	4036.4	4128.4	4339.7	4565.7	4778.0	4886.8	5134.7	5628.4	6001.8	5419.2
52.5°	4237.2	4223.6	4319.9	4577.2	4922.3	5167.1	5314.6	5639.9	6134.6	6513.3	5764.3
55°	4456.9	4424.5	4563.6	4891.0	5340.7	5652.4	5827.1	6139.9	6687.9	6977.7	6027.9
57.5°	4697.5	4661.9	4848.1	5283.2	5884.6	6226.7	6445.3	6702.6	7208.8	7333.3	6182.7
60°	4956.9	4945.4	5166.1	5743.4	6533.1	6930.6	7088.5	7321.8	7661.7	7539.4	6144.0
62.5°	5194.3	5190.1	5511.2	6242.4	7220.3	7657.6	7783.1	7844.8	7988.1	7525.8	5836.5
65°	5444.3	5479.8	5913.9	6820.8	8008.0	8436.8	8489.1	8332.2	8097.9	7169.1	5206.8
67.5°	5475.7	5544.7	6167.0	7362.6	8754.8	9159.6	9117.7	8517.3	7773.7	6176.5	4081.4
70°	4897.2	5017.5	5763.3	7445.2	9280.9	9579.0	9276.7	8118.8	6596.9	4474.7	2566.8
72.5°	4091.8	4195.4	4854.4	6349.0	8602.1	8981.8	8572.8	6872.0	4661.9	2566.8	1307.5
75°	3185.0	3305.3	3913.0	5046.8	6440.0	6591.7	6386.7	4792.6	2562.6	1058.5	594.1
77.5°	1943.4	2030.2	2503.0	3419.3	4506.0	4279.1	3626.4	2687.1	1124.4	507.3	367.1
80°	859.8	913.1	1233.2	1836.7	2603.4	2461.2	1940.3	1147.4	615.0	322.2	256.3
82.5°	461.3	495.8	607.7	727.0	1143.2	1195.5	969.6	661.1	330.5	184.1	146.4
85°	202.9	222.8	276.1	263.6	375.5	369.2	372.4	454.0	157.9	84.7	95.2
87.5°	0.0	0.0	0.0	0.0	1.0	1.0	11.5	60.7	15.7	25.1	22.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P633308
 CATALOG NUMBER: GWS-SA2E-740-U-SL4-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2379.6	2379.6	2379.6	2379.6	2379.6	2379.6	2379.6	2379.6	2379.6	2379.6	2379.6
2.5°	2354.5	2335.7	2330.4	2324.1	2312.6	2292.8	2278.1	2261.4	2254.1	2245.7	2246.7
5°	2295.9	2272.9	2250.9	2222.7	2187.1	2147.4	2120.2	2088.8	2072.1	2056.4	2060.6
7.5°	2245.7	2210.1	2165.2	2105.5	2041.7	1970.6	1913.1	1868.1	1837.8	1816.9	1827.3
10°	2214.3	2172.5	2094.0	1996.8	1889.0	1780.2	1697.6	1620.2	1572.1	1534.4	1532.3
12.5°	2208.0	2153.7	2039.6	1898.4	1742.6	1597.2	1475.9	1371.3	1307.5	1260.4	1278.2
15°	2214.3	2145.3	1992.6	1807.4	1610.8	1414.2	1263.5	1143.2	1066.9	1024.0	1020.9
17.5°	2221.6	2136.9	1939.2	1709.1	1472.7	1247.8	1073.2	945.6	867.1	824.2	825.3
20°	2227.9	2124.4	1876.5	1601.4	1332.6	1093.0	912.1	790.8	720.7	689.3	694.5
22.5°	2238.4	2111.8	1809.5	1486.3	1189.3	943.5	784.5	686.2	644.3	623.4	624.4
25°	2258.3	2104.5	1740.5	1360.8	1048.1	824.2	696.6	630.7	604.6	592.0	591.0
27.5°	2299.0	2110.8	1668.3	1239.5	920.5	733.2	640.1	597.2	579.5	571.1	570.1
30°	2367.0	2135.9	1605.6	1116.1	810.6	662.1	601.4	575.3	564.8	557.5	556.5
32.5°	2470.6	2182.9	1537.6	1001.0	721.7	609.8	571.1	557.5	550.2	546.0	546.0
35°	2627.5	2268.7	1470.6	900.6	652.7	569.0	547.0	541.8	535.5	533.4	535.5
37.5°	2853.4	2405.7	1410.0	812.7	603.5	537.6	520.9	523.0	517.8	520.9	524.0
40°	3140.0	2588.8	1358.7	740.5	566.9	514.6	497.9	505.2	502.1	505.2	510.4
42.5°	3503.0	2815.8	1320.0	684.1	540.8	495.8	480.1	487.4	485.3	489.5	494.7
45°	3907.7	3114.9	1302.2	644.3	521.9	482.2	465.5	470.7	468.6	471.7	477.0
47.5°	4295.8	3386.9	1317.9	621.3	506.3	470.7	452.9	455.0	454.0	452.9	456.0
50°	4630.5	3603.4	1362.9	614.0	495.8	459.2	442.4	443.5	440.4	434.1	436.2
52.5°	4903.5	3777.0	1390.1	614.0	490.6	446.6	430.9	432.0	425.7	417.3	418.4
55°	5083.4	3847.1	1368.1	612.9	488.5	436.2	419.4	420.5	414.2	403.7	404.8
57.5°	5134.7	3779.1	1276.1	601.4	486.4	427.8	407.9	410.0	405.8	394.3	394.3
60°	4991.4	3530.2	1107.7	575.3	481.1	422.6	399.6	402.7	400.6	389.1	389.1
62.5°	4615.9	3087.7	906.9	535.5	466.5	416.3	392.2	398.5	403.7	397.5	396.4
65°	3913.0	2473.7	737.4	491.6	447.7	405.8	381.8	397.5	409.0	417.3	417.3
67.5°	2936.0	1770.8	601.4	445.6	419.4	384.9	368.2	382.8	391.2	396.4	399.6
70°	1789.7	1041.8	473.8	392.2	378.6	353.5	341.0	326.3	314.8	312.7	313.8
72.5°	875.5	596.2	384.9	333.7	323.2	300.2	272.0	265.7	260.4	257.3	256.3
75°	482.2	415.3	318.0	277.2	258.4	230.1	223.8	213.4	211.3	207.1	208.1
77.5°	341.0	327.4	262.5	224.9	196.6	182.0	185.1	177.8	177.8	174.7	173.6
80°	256.3	257.3	201.9	164.2	145.4	140.2	143.3	143.3	141.2	140.2	139.1
82.5°	162.1	183.0	136.0	105.6	103.6	104.6	103.6	102.5	104.6	101.5	100.4
85°	111.9	131.8	82.6	62.8	62.8	61.7	63.8	62.8	64.9	61.7	61.7
87.5°	25.1	58.6	30.3	18.8	19.9	18.8	19.9	20.9	23.0	24.1	24.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)